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Abstract

PURPOSE: To obtain a separator having the excellent hydrophilic property, and to restrict the self discharge of a battery, and to improve the cycle lifetime characteristic by coating a base made of polyolefine group resin fiber with the sulfonic acid group negative ion surface active agent.

CONSTITUTION: The surface of a base made of polyolefine group resin fiber such as polyethylene resin fiber, polypropylene resin fiber and ethylene-propylene copolymer is coated with the sulfonic acid group surface active agent. As the sulfonic acid group surface active agent, alkyl benzene sulfonate, alkyl sulfonate or the like is used. A separator having the excellent hydrophilic property can be thereby obtained without lowering the mechanical strength thereof.